

What is claimed is:

- 1           1. A method for fabricating a dry cell battery from a plurality of dry cells  
2 and dry cell straps including the steps of:
  - 3           a) positioning a plurality of dry cells in juxtaposition relationship;
  - 4           b) orienting a dry cell strap for making a soldering contact between a first  
5 toe means of a first dry cell strap and a first terminal means of a first dry cell of  
6 said plurality of dry cells and between a second toe means of said first dry cell  
7 strap and a second terminal means of a second dry cell of said plurality of dry  
8 cells;
  - 9           c) positioning a split coil means connected to an R F generator means in  
10 juxtaposition with said first dry cell so that said first terminal means and said first  
11 toe means are in an aligned orientation with coils of said split coil means; and
  - 12           d) operating said R F generator means for generating an R F energy and  
13 applying said R F energy to said split coil means for inducing a heat generating  
14 current in said first terminal means and said first toe means for soldering said first  
15 toe means of said dry cell strap to said first terminal means.

1           2. Apparatus for fabricating a dry cell battery from a plurality of dry cells  
2        by coupling terminals of adjacent dry cells both electrically and physically, said  
3        apparatus comprising:

4           a) a generator means for generating an alternate current energy in the  
5        microwave range of frequencies;

6           b) a coil means coupled to said generator means for receiving said  
7        alternating current energy and for creating a magnetic field about said coil means  
8        in response to receiving said alternating current energy, said coil means having  
9        a space between adjacent coils defining a coil split;

10          c) a strap means defined by a bridge means and a first toe at one end  
11        thereof and a second toe at another end thereof;

12          d) a plurality of dry cells in juxtaposition relationship, each dry cell of said  
13        plurality of dry cells having a first terminal means and a second terminal means;

14          e) said first toe of said strap means retained in soldering contact with said  
15        first terminal means of a first dry cell of said plurality of dry cells and said first  
16        toe and said first terminal means placed in said coil split for having induced,  
17        about said soldering contact, an heat generating energy for soldering said first toe  
18        to said first terminal means.

1           3. Apparatus as in Claim 2 wherein said cell strap is bi-metallic in  
2        structure, having a core of substantially solid copper metal and a skin, bonded to  
3        said core, of chrome steel metal.

1                   4. Apparatus for fabricating a dry cell battery, as in Claim 2 and further  
2 comprising:

3                   f) said second toe of said strap means retained in a second soldering  
4 contact with said second terminal means of a second dry cell of said plurality of  
5 dry cells and said second toe and said second terminal means placed in said coil  
6 split, after removal of said first toe and said first terminal means therefrom, for  
7 having induced, about said second contact, said heat generating energy for  
8 soldering said second toe to said second terminal means.

1                   5. Apparatus for fabricating a dry cell battery, as in Claim 4 and in which,  
2 said first terminal means of said first dry cell is a positive terminal of said first  
3 dry cell and said second terminal means of said second dry cell is a negative  
4 terminal of said second dry cell.

1                   6. Apparatus for fabricating a dry cell battery, as in Claim 4 and in which,  
2 said first terminal means of said first dry cell is a post terminal means and said  
3 second terminal means of said second dry cell is a can terminal means.

1                   7. Apparatus for fabricating a dry cell battery, as in Claim 4 and in which  
2 said first dry cell and said second dry cell are connected by said strap means in  
3 series electric connection.

1                   8. Apparatus for fabricating a dry cell battery, as in Claim 4 and in which  
2                   said first dry cell and said second dry cell are connected by said strap means in  
3                   parallel electric connection.

1                   9. Apparatus for fabricating a dry cell battery, as in Claim 4 and in which  
2                   said coil means is defined by a hollow tubing in coil configuration and said  
3                   hollow tubing is sealed and contains a fluid coolant.

1                   10. Apparatus for fabricating a dry cell battery as in Claim 2 and in which  
2                   said generator means generates an alternating current energy in the radio  
3                   frequency range of frequencies.